

SEQUENCE LISTING

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 Jones, Robert M.
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<120> Uses of Kappa-Conotoxin PVIIA

<130> Kappa-PVIIA

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<150> US 60/219,438
 <151> 2000-07-20

<150> US 60/155,135
 <151> 1999-09-22

<160> 25

<170> PatentIn Ver. 2.0

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 <213> Conus purpurascens

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 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 2, 7, 18, 19, 22 and 25 may be Arg,
 homoarginine, ornithine, Lys, N-methyl-Lys,
 N,N-dimethyl-Lys, N,N,N-trimethyl-Lys, any
 synthetic basic amino acid, His or halo-His; Xaa at

<220>
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 <222> (1)..(27)
 <223> residue 4 may be Pro or Hyp; Xaa at residue 9 and
 23 may be Phe,Tyr, meta-Tyr, ortho-Tyr, nor-Tyr,
 mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
 O-phospho-Tyr, nitro-Tyr, Trp (D or L), neo-Trp,

<220>
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 <222> (1)..(27)
 <223> halo-Trp (D or L) or any synthetic aromatic amino
 acid; Xaa at residue 11 is His or halo-His

<400> 1
 Cys Xaa Ile Xaa Asn Gln Xaa Cys Xaa Gln Xaa Leu Asp Asp Cys Cys
 1 5 10 15
 Ser Xaa Xaa Cys Asn Xaa Xaa Asn Xaa Cys Val
 20 25

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<400> 2
 Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Ala Lys Cys Asn Arg Phe Asn Lys Cys Val
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 1 5 10 15

Ser Arg Lys Cys Asn Ala Phe Asn Lys Cys Val
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 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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1 5 10 15

Ser Arg Ala Cys Asn Arg Phe Asn Lys Cys Val
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Cys Ala Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Ala Cys Val
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 Cys Lys Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

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<400> 10
 Cys Arg Ile Xaa Asn Gln Ala Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

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<400> 11
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 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

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 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

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 1 5 10 15
 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

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 1 5 10 15
 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Cys Arg Ile Xaa Asn Ala Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<222> (1)..(27)

<223> Xaa is Hyp

<400> 17

Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Ala Arg Phe Asn Lys Cys Val
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<210> 18

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<222> (1)..(27)

<223> Xaa is Hyp

<400> 18

Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ala Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<210> 19

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<223> Xaa is Hyp

<400> 19

Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Ala Lys Cys Val
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<400> 20
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 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<400> 21
 Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Ala Asp Cys Cys
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 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<400> 22
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 1 5 10 15
 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<400> 23
 Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys

1 5 10 15
 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Ala
 20 25

<210> 24
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<400> 24
 Cys Arg Ile Ala Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25

<210> 25
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<400> 25
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 1 5 10 15

Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
 20 25